AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently amended) A method of producing a—polymer composite <u>fibres</u> comprising a polymer matrix having metal nanoparticles incorporated therein, said method comprising the steps of:
 - (i) mixing metal nanoparticles with a polymer dope; and
 - (ii) solidifying the polymer composite from the dope by a fibre extrusion process.
- 2. (Original) A method according to claim 1, wherein the dope is stirred vigorously so as to produce a homogeneous mixture.
- 3. (Original) A method according to claim 2, wherein a high shear mixer is used to stir the dope.
- 4. (Currently amended) A method according to any preceding claim 1, wherein the metal nanoparticles are added directly to the polymer dope as a powder.
- 5. (Currently amended) A method according to <u>any preceding claim 1</u>, wherein the metal nanoparticles comprise one or more transition metals.
- 6. (Canceled)
- 7. (Canceled)

- 8. (Original) A method according to claim 7, wherein the fibres are extruded by a spinning technique.
- 9. (Original) A method according to claim 8, wherein the fibres are extruded by a wet spinning technique.
- 10. (Currently amended) A method according to any one of claims 6 to 9claim 1, wherein the polymer dope comprises a linear polymeric material having fibre forming characteristics.
- 11. (Currently amended) A method according to any preceding claim 1, wherein the metal nanoparticles have antimicrobial properties.
- 12. (Original) A method according to claim 11, wherein the nanoparticles comprise silver.
- 13. (Currently amended) A method according to any one of claims 6 to 12claim 1, wherein the polymer matrix comprises alginate.
- 14. (Currently amended) A method according to any one of claims 6 to 12claim 1, wherein the polymer matrix comprises polyacrylonitrile.
- 15. (Currently amended) A method according to any preceding claim 1, wherein the metal nanoparticles have a size less than 500 nm.
- 16. (Original) A method according to claim 15, wherein the metal nanoparticles have a size less than 100 nm.
- 17. (Original) A method according to claim 16, wherein the metal nanoparticles have a size in the range 20 to 100 nm.

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- 18. (Canceled)
- 19. (Canceled)
- 20. (Canceled)
- 21. (Original) Fibres comprising a polymer matrix having at least one metal incorporated therein, wherein the at least one metal is in the form of nanoparticles.
- 22. (Original) Fibres according to claim 21, wherein the nanoparticles are distributed in a substantially uniform manner across the fibre cross section.
- 23. (Currently amended) Fibres according to claim 21-or claim 22, wherein the metal nanoparticles have a size less than 500 nm.
 - 24. (Original) Fibres according to claim 23, wherein the metal nanoparticles have a size less than 100 nm.
- 25. (Original) Fibres according to claim 24, wherein the metal nanoparticles have a size in the range 20 to 100 nm.
- 26. (Currently amended) Fibres according to any one of claims claim 21 to 25, wherein the metal nanoparticles have antimicrobial properties.
- 27. (Original) Fibres according to claim 26, wherein the metal nanoparticles comprise Ag, Au, Pt, Pd, Ir, Sn, Cu, Sb, Bi, or Zn, or any combination thereof.

- 28. (Original) Fibres according claim 27, wherein the metal nanoparticles comprise Ag.
- 29. (Currently amended) Fibres according to any one of claims claim 21-to 28 having a diameter of less than 500 microns.
- 30. (Original) Fibres according to claim 29 having a diameter of less than 100 microns.
- 31. (Original) Fibres according to claim 30 having a diameter of 10 to 50 microns.
- 32. (Currently amended) Fibres according to any one of claims claim 21 to 31, wherein the polymer matrix comprises a synthetic polymer, a natural polymer or any combination thereof.
- 33. (Original) Fibres according to claim 32, wherein said natural polymer comprises alginate.
- 34. (Original) Fibres according claim 33, wherein the polymer matrix comprises alginate and Ag is present in the polymer matrix in an amount between 0.1 and 15 % w/w, and preferably in an amount between 0.1 and 2 % w/w.
- 35. (Original) Fibres according to claim 32, wherein said synthetic polymer comprises polyacrylonitrile.
- 36. (Original) Fibres according claim 35, wherein the polymer matrix comprises polyacrylonitrile and Ag is present in the polymer matrix in an amount between 0.05 and 2 % w/w.

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- 37. (Currently amended) A wound dressing comprising fibres according to claim 33 or claim 34.
- 38. (Currently amended) A <u>woven or non-woven fibrous article comprising fibres</u> according to claim 21, particularly a fabric comprising said fibres according to any one of claims 21 to 37.

Claims 39-42 (Canceled)